

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'23", long 110°29'02", in SW¹/₄SW¹/₄NW¹/₄ sec. 20, T. 2 N., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,970 ft above sea level by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft³/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft³/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft³/s June 4, gage height, 4.51 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	765	338	340	303
2	.00	.00	.00	.00	.00	.00	.00	.00	1270	318	337	278
3	.00	.00	.00	.00	.00	.00	.00	.00	1020	305	337	246
4	.00	.00	.00	.00	.00	.00	.00	104	1030	347	336	233
5	.00	.00	.00	.00	.00	.00	.00	318	1210	340	293	232
6	.00	.00	.00	.00	.00	.00	.00	375	1080	338	260	232
7	.00	.00	.00	.00	.00	.00	.00	305	1000	334	261	231
8	.00	.00	.00	.00	.00	.00	.00	300	1070	368	263	232
9	.00	.00	.00	.00	.00	.00	.00	291	1230	387	286	231
10	.00	.00	.00	.00	.00	.00	.00	287	1200	382	287	231
11	.00	.00	.00	.00	.00	.00	.00	288	940	359	243	231
12	.00	.00	.00	.00	.00	.00	.00	292	805	338	137	231
13	.00	.00	.00	.00	.00	.00	.00	317	697	337	50	231
14	.00	.00	.00	.00	.00	.00	.00	356	655	340	.00	170
15	.00	.00	.00	.00	.00	.00	.00	409	640	353	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	426	622	350	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	443	619	349	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	471	622	365	41	.00
19	.00	.00	.00	.00	.00	.00	.00	448	856	376	277	.00
20	.00	.00	.00	.00	.00	.00	.00	436	818	373	348	.00
21	.00	.00	.00	.00	.00	.00	.00	452	788	370	360	.00
22	.00	.00	.00	.00	.00	.00	.00	468	706	369	341	.00
23	.00	.00	.00	.00	.00	.00	.00	483	669	368	329	.00
24	.00	.00	.00	.00	.00	.00	.00	495	636	368	329	.00
25	.00	.00	.00	.00	.00	.00	.00	499	625	366	319	.00
26	.00	.00	.00	.00	.00	.00	.00	502	417	364	307	.00
27	.00	.00	.00	.00	.00	.00	.00	429	262	359	307	.00
28	.00	.00	.00	.00	.00	.00	.00	376	288	343	305	.00
29	.00	.00	.00	.00	---	.00	.00	346	347	343	303	.00
30	.00	.00	.00	.00	---	.00	.00	330	346	340	303	.00
31	.00	---	.00	.00	---	.00	---	344	---	340	303	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10590.00	23233	10927	7602.00	3312.00
MEAN	.000	.000	.000	.000	.000	.000	.000	342	774	352	245	110
MAX	.00	.00	.00	.00	.00	.00	.00	502	1270	387	360	303
MIN	.00	.00	.00	.00	.00	.00	.00	.00	262	305	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	21010	46080	21670	15080	6570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	48.9	7.70	.97	1.44	2.27	3.02	48.5	298	362	357	250	141
MAX	202	120	17.3	28.2	44.4	72.3	202	555	920	717	410	326
(WY)	1983	1966	1984	1984	1966	1966	1943	1969	1983	1995	1944	1984
MIN	.000	.000	.000	.000	.000	.000	.000	130	144	155	35.6	.000
(WY)	1991	1948	1943	1943	1943	1943	1944	1977	1945	1961	1989	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1943 - 1997

ANNUAL TOTAL	47481.00	55664.00	127
ANNUAL MEAN	130	153	211
HIGHEST ANNUAL MEAN			1983
LOWEST ANNUAL MEAN			60.9
HIGHEST DAILY MEAN	734	1270	2000
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 15 1942
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 15 1942
ANNUAL RUNOFF (AC-FT)	94180	110400	92320
10 PERCENT EXCEEDS	372	427	364
50 PERCENT EXCEEDS	.00	.00	14
90 PERCENT EXCEEDS	.00	.00	.00